

***iData***<sup>®</sup>

# ***iData 50***

## **User Manual**

[www.idatachina.com](http://www.idatachina.com)

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# 1 Introduction

## 1.1 Appearance of iData 50

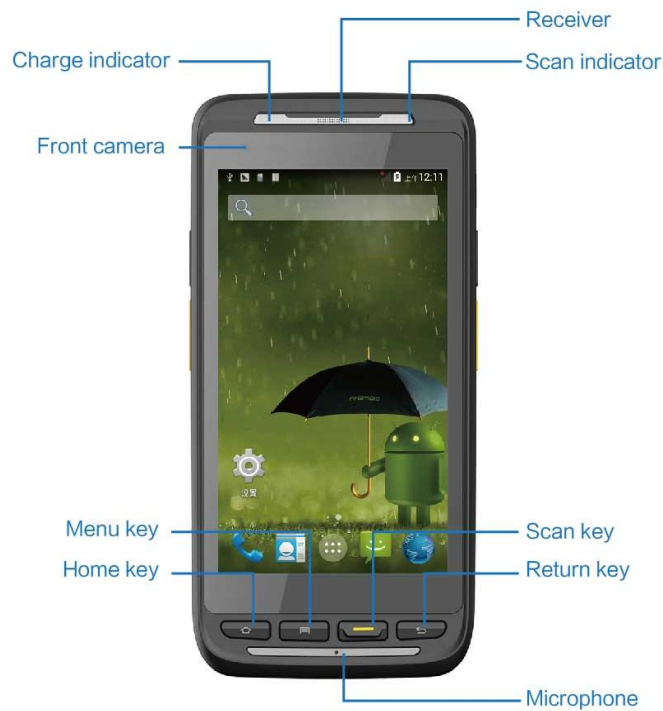


Figure 1-1 Front view of iData 50



Figure 1-2 Rear view of iData 50

## 1.2 Installing an SD Card

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To install an SD card, do as follows:

1. Push the card cover according to the OPEN direction marked on the card cover.
2. Insert an SD card.
3. Lock the SD card according to the LOCK direction marked on the card cover.

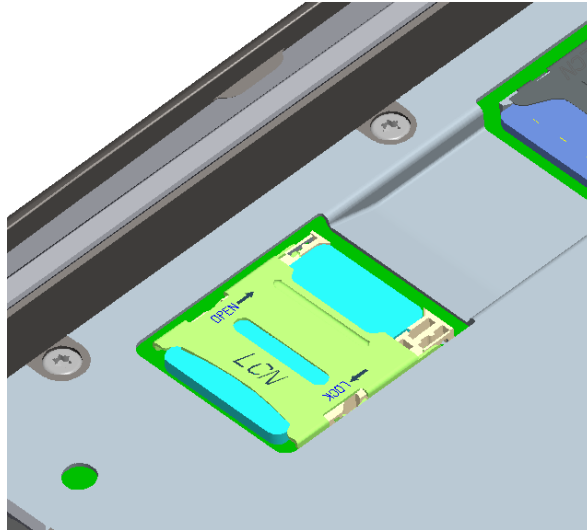


Figure 1-3 Inserting an SD card

## 1.3 Installing a SIM Card

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To install a SIM card, do as follows:

1. Insert a SIM card along the direction, as shown in Figure 1-4.

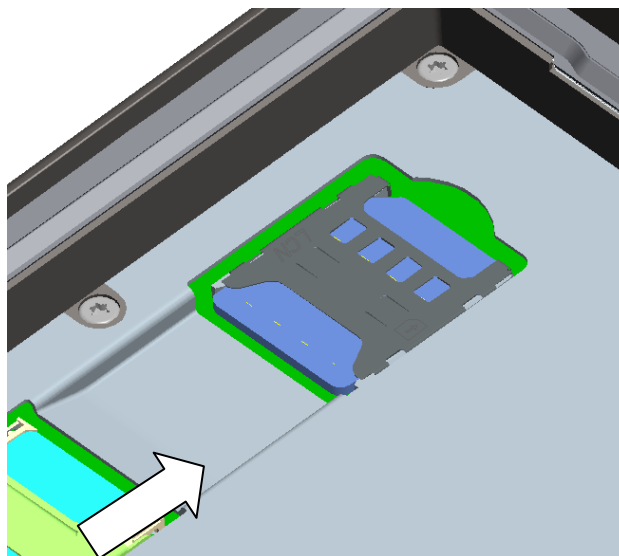


Figure 1-4 Inserting a SIM card

## 1.4 Installing and Disassembling the Battery Cover

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To disassemble and install the battery cover, do as follows:

1. Push the lock to the left. You can directly pull out the battery cover.
2. Install the battery cover and press it downward.
3. Push the lock to the right. You can lock the battery cover.

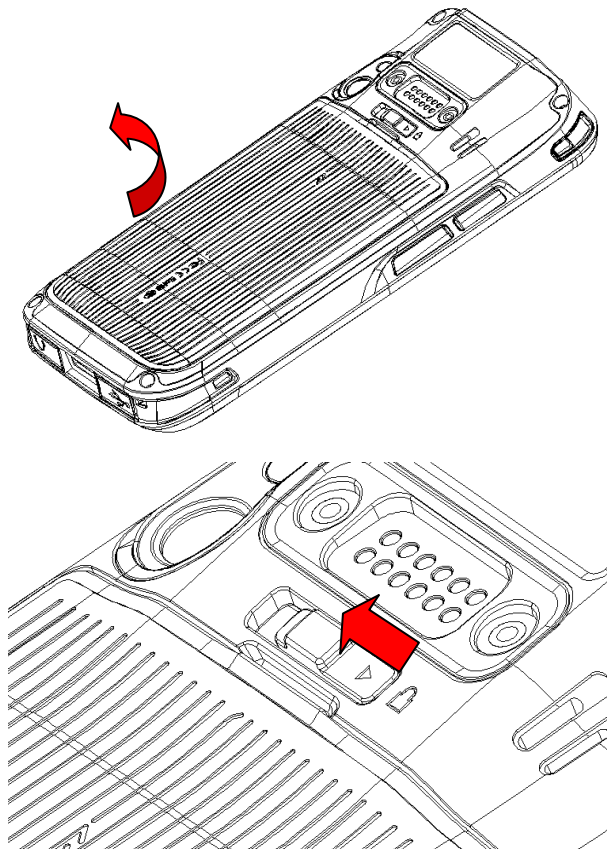


Figure 1-5 Installing and disassembling the battery cover

## 1.5 Charging

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You can charge a battery in the following ways:

1. Charge the iData 50 by using bottom charging cable.
2. Connect the iData 50 to a PC by using a USB cable to charge the iData 50.

In the charging status, the LED on the left is red. When the LED on the left becomes blue, charging is complete.

When the battery volume is low, the iData 50 displays a warning message.

When the battery volume is too low, the iData 50 is automatically powered off.

★ Caution

The battery can be charged for more than or less than three hours. The battery will not be

damaged if charging is interrupted. The duration of the battery depends on different applications of the iData 50, for example, selected functions of the iData 50, usage mode and data transmission.

#### ★ Tips

To ensure a longer standby time of the iData 50, follow the following tips:

- ♦ Always connect the iData 50 to the AC power supply when you do not use it.
- ♦ Set the time to sleep of the iData 50 to a smaller value by selecting **Home Screen > App > Settings > Display > Sleep**).
- ♦ Stop all wireless activities when you do not use the iData 50.

## 2 Using the iData 50

### 2.1 Powering On/Off the iData 50

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After installing a SIM card and a battery and charging the iData 50 completely, you can use the iData 50.

1. To power on the iData 50, press the On/Off key  on the right for some time. The iData 50 vibrates, displays the startup screen and enters the Android OS after the guide progress is complete. It takes some time for the iData 50 to initialize. Please wait patiently.
2. To power off the iData 50, press the On/Off key on the right  for some time. A dialog box that provides shutdown options is displayed. Click **Power Off**.

### 2.2 Locking and Unlocking the iData 50

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#### Locking the iData 50

Press the On/Off key  momentarily to lock the iData 50. If you do not perform any operation for the iData 50 within the default locking time, the iData 50 is automatically locked.

#### Unlocking the iData 50

Press the On/Off key  momentarily and slide the unlock key to the right on the screen.



### 2.3 Keys

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The iData 50 provides a physical keypad that consists of four keys, as shown in the figure below.

On the physical keypad of the iData 50, keys are respectively home key, menu key, scan key, and back key from left to right.

**Home key:** used to go back to the home screen.

**Menu key:** used to show menus.

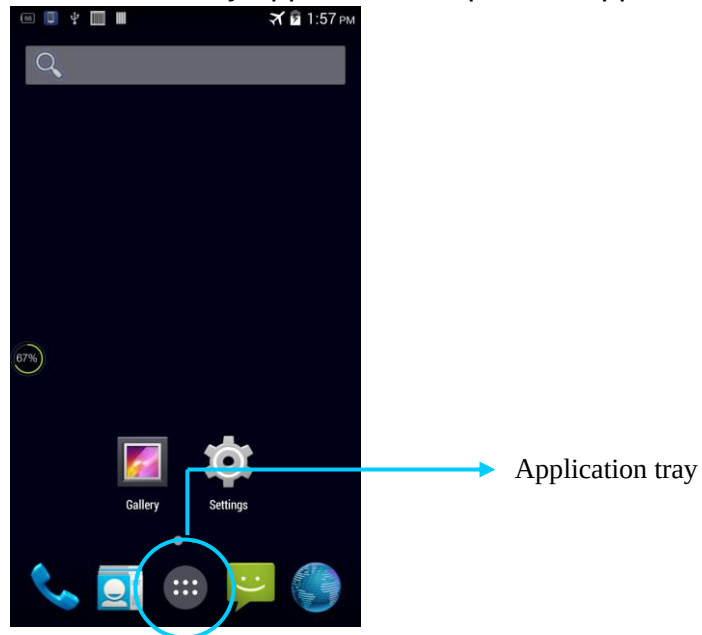
**Scan key:** used to scan.

**Return key:** used to return to the previous operation screen.



## 2.4 Home Screen

By default, the iData 50 has one home screen. You can add home screens by placing applications to the home screen and slide to the left or right to switch to another home screen. On the home screen, click the icon of any application to open the application.



### ★ Tips

- ♦ You can freely add or delete the icon of an application in the blank of the home screen.
- ♦ If you click the application tray, all applications can be viewed.

## 2.5 Status Icons and Indicators

Status icons and indicators are in the status bar at the upper part of the screen and show device status and notifications.

Table 2-1 Status icons

| Icon                                                                                | Description                              | Icon                                                                                | Description                                                              |
|-------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
|    | WLAN                                     |    | Signal strength                                                          |
|    | Bluetooth                                |    | Flight mode                                                              |
|    | USB connection                           |    | Network access restricted                                                |
|    | Missed calls                             |    | USB debugging                                                            |
|    | New messages                             |    | Charging                                                                 |
|    | Modem logs                               |    | Battery full                                                             |
|    | Silent mode                              |    | Multiple notification icons,<br>which are beyond the scope<br>of display |
|  | Application permission                   |  | EDGE                                                                     |
|  | Connection between USB<br>and PC pea pod |                                                                                     |                                                                          |

## ★ Note

As software is upgraded continuously, status indicators may be different from those displayed on the iData 50. The actual status indicators prevail.

## 2.6 Basic Settings

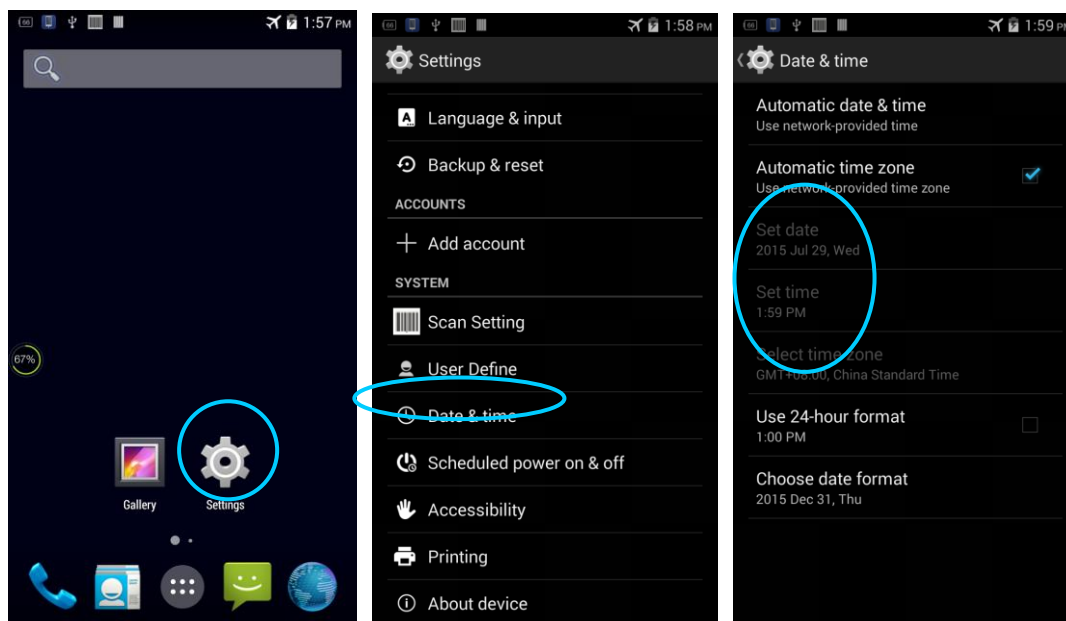
### 2.6.1 Date and Time Settings

To change the date and time in the iData 50, do as follows:

1. Find the following icon.



2. Select **Settings** > **Date & time** > **Set date** or **Set time**.

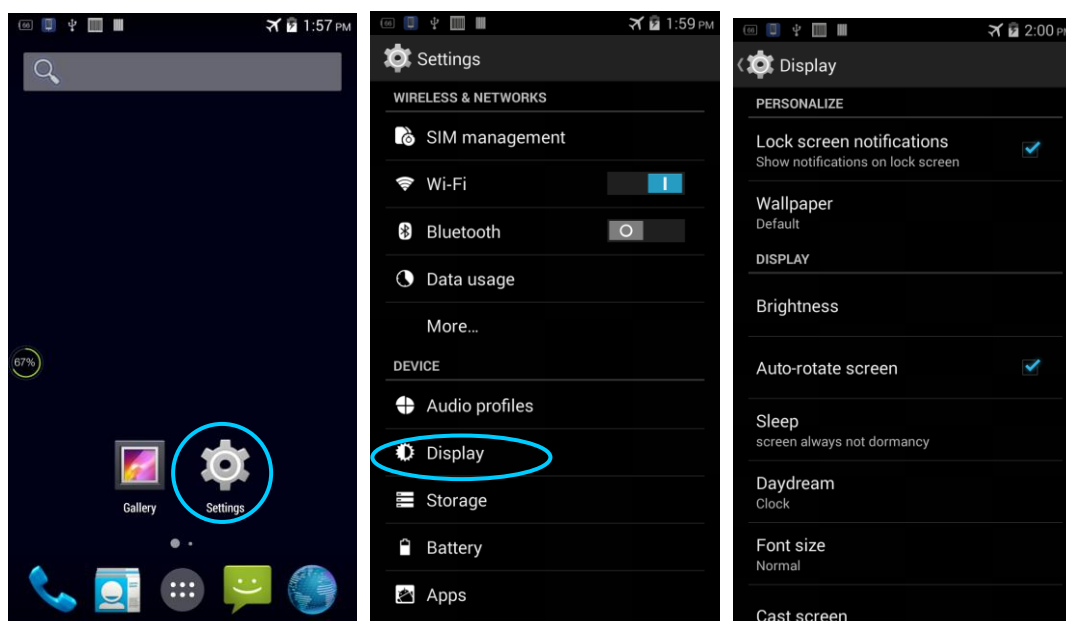


## 2.6.2 Display Setting

1. Find the following icon.



2. Select **Settings** > **Display** > **Lock screen notification/Wallpaper/Brightness/Auto-rotate screen/Sleep/Interactive screensaver/Font size/Cast screen**.



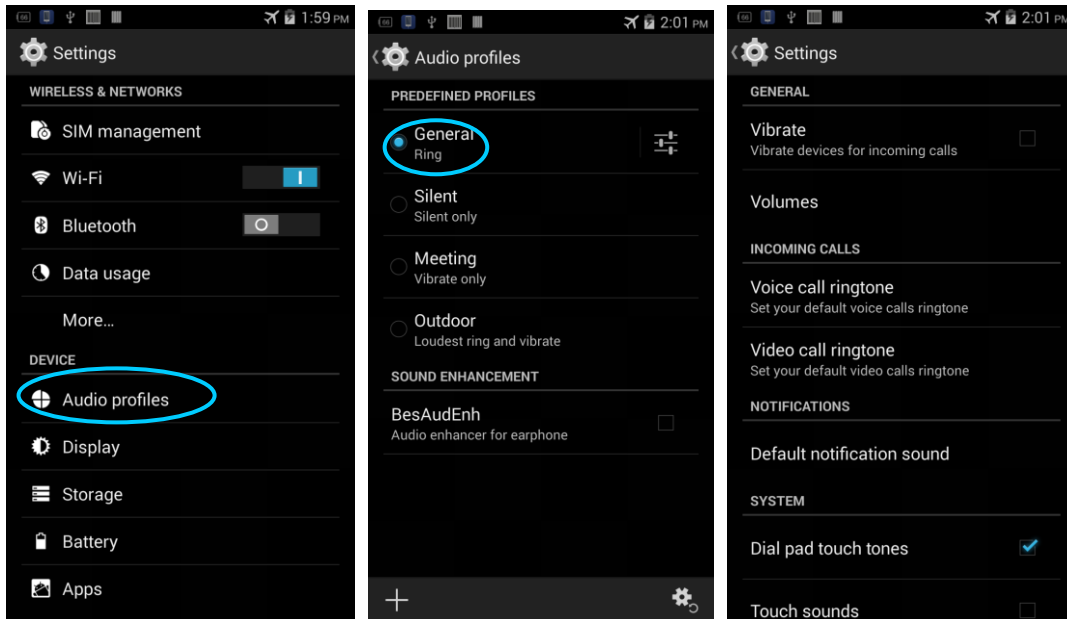
## 2.6.3 Ringtone Setting

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1. Find the following icon.



2. Select **Settings** > **Audio profiles** > **General/Silent/Meeting/Outdoor**. Click different modes and set the ringtone in the modes.



## 2.6.4 Security Setting

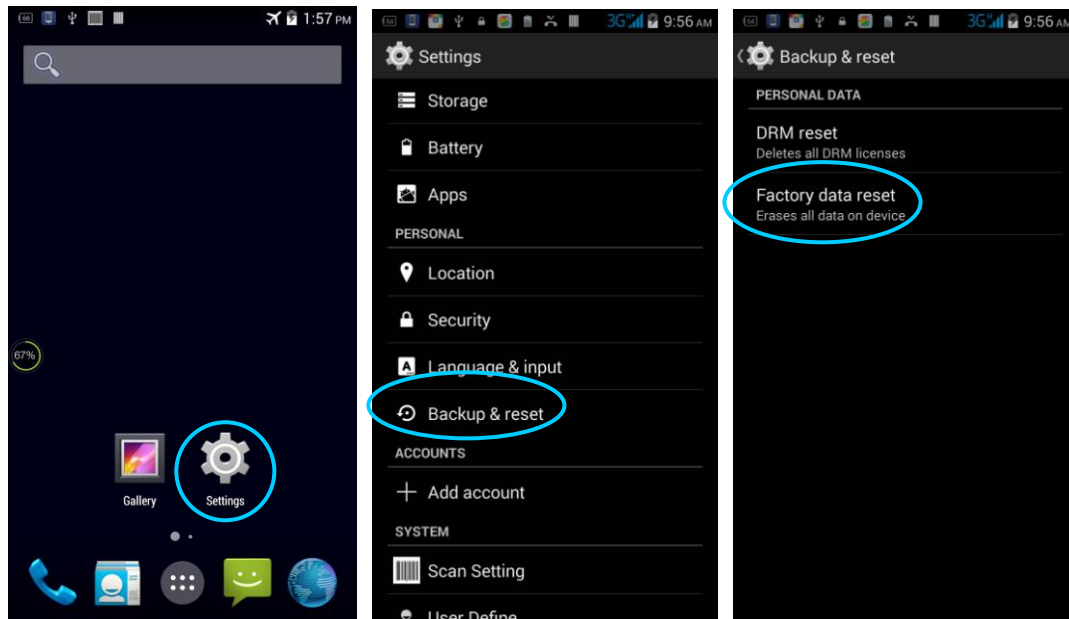
---

1. Find the following icon.



2. Select **Settings** > **Backup & reset** > **Factory data reset**.

The iData 50 starts to restore factory settings.



### ★ Caution

If you perform the preceding operation, the following data will be cleared:

- ♦ Account
- ♦ Data and settings of the system and applications
- ♦ Downloaded applications

The following data will not be cleared:

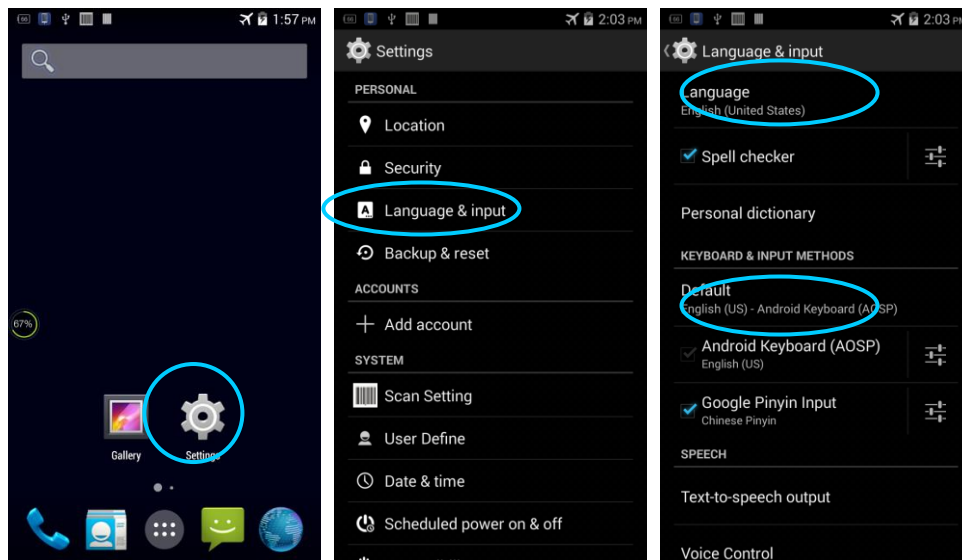
- ♦ Current system software and bound applications
- ♦ Files in the SD card, for example, music and photos

## 2.6.5 Language and Input Method Setting

1. Find the following icon.



2. Select **Settings** > **Language & input**, click **Language**, select a language, click **Default**, and select an input method.



## 2.6.6 Shortcuts

You can add shortcut icons on the home screen of the iData 50.

On the home screen, click the icon of application tray, press and hold an icon and drag it to the home screen.

## 2.6.7 Widgets

You can add widgets such as clock, music player and calendar on the home screen of the iData 50.

On the home screen, press and hold a blank space. The entry for setting wallpaper and widgets is displayed. Click a widget and drag it to a blank space.

Click the icon of a widget to open the widget.



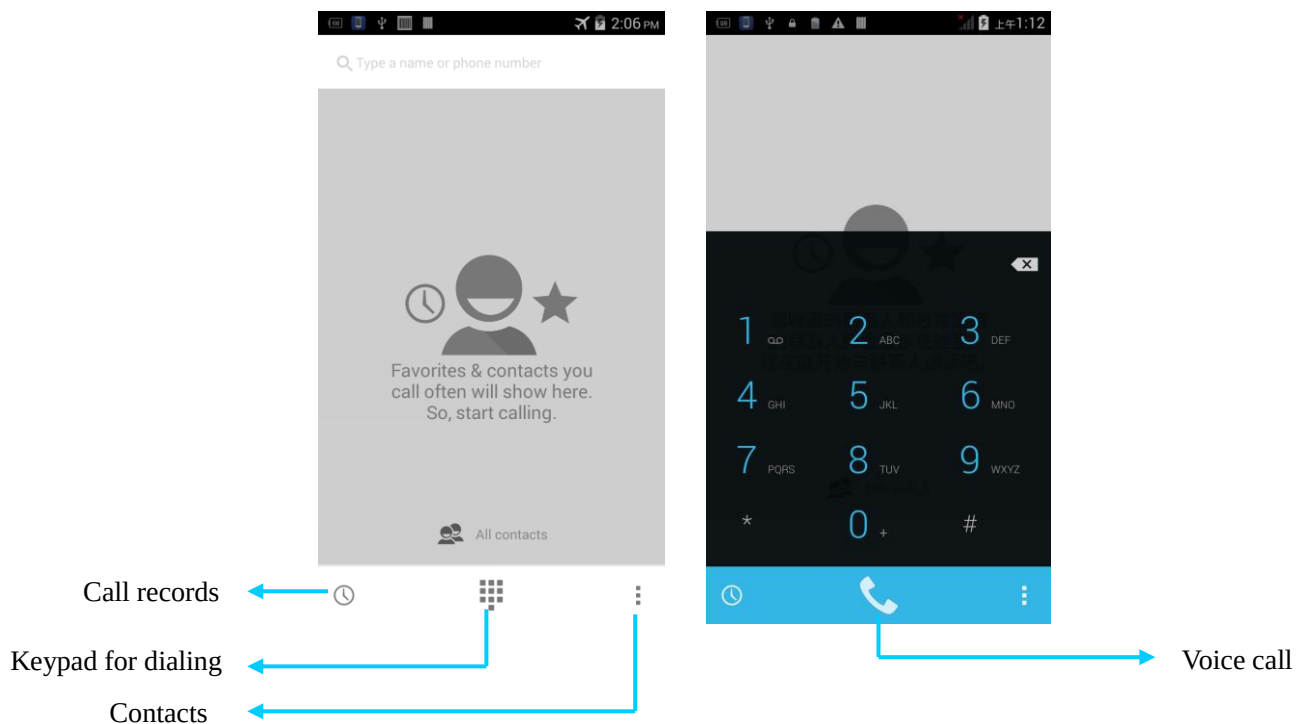
## 3 Call Function

### 3.1 Making a Call

1. Find the following icon.

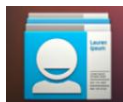


2. Enter a phone number.
3. Click  to make a call.
4. Click  to terminate the call.

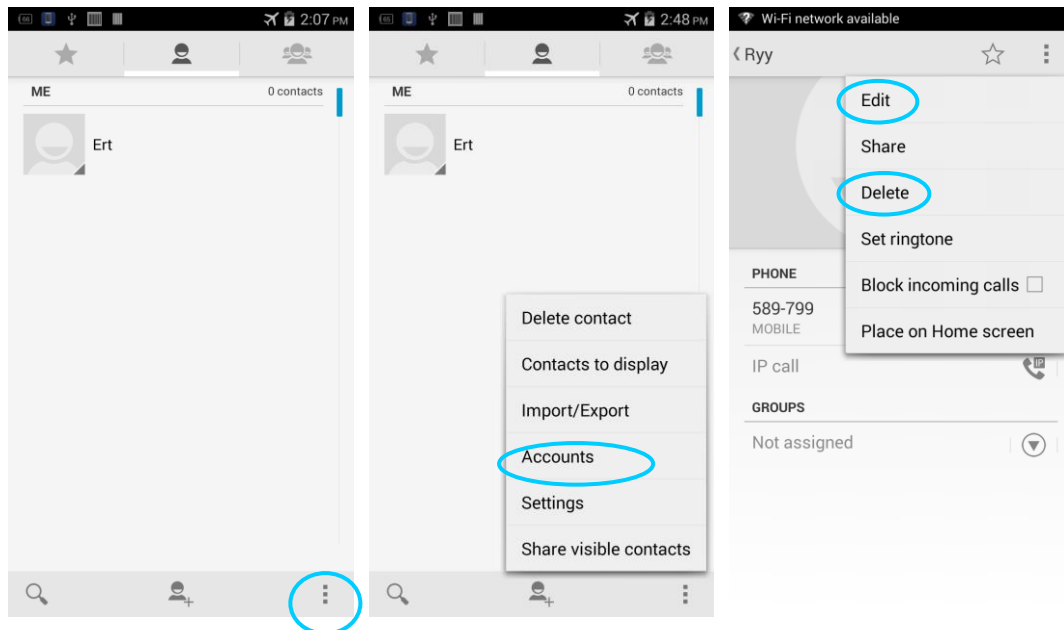


### 3.2 Contacts

1. Find the following icon.



2. Click **Contacts** to open the list of contacts.
3. To add a contact, click .
4. To import or export contacts, press the menu key and click **Import/Export**.
5. To edit or delete a contact, select the contact, press the menu key and click **Edit/Delete**.



### 3.3 SMS and MMS

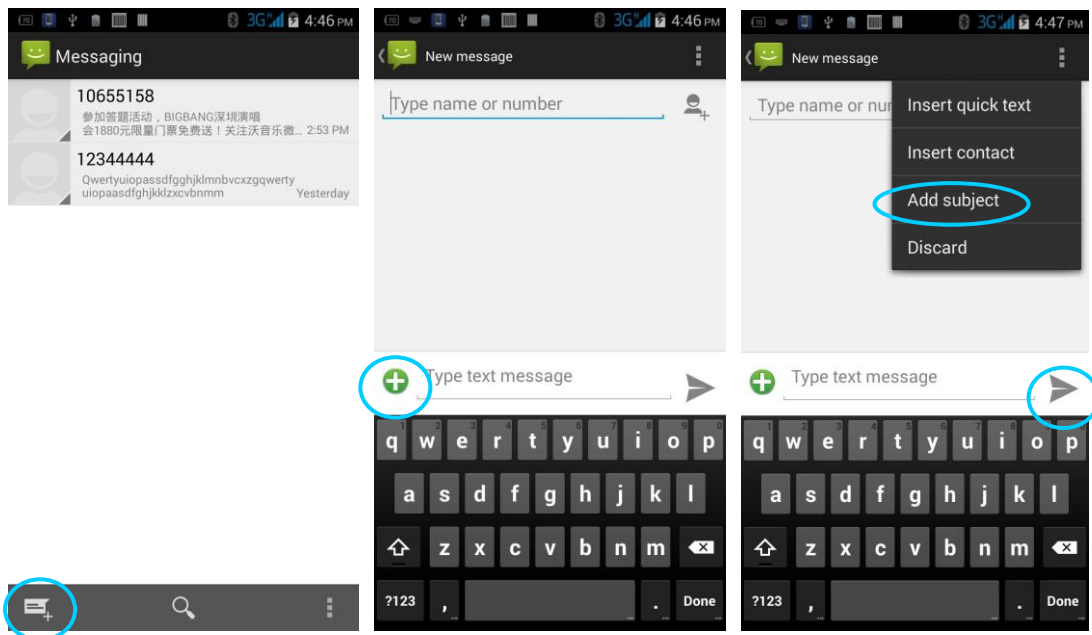
1. Find the following icon.



2. Click  enter a receiver and text to be sent.
3. Click  to send the message.
4. On the message editing page, press the menu key, click **Add subject** to convert the message into a multimedia message. After editing the message, click  to send the message.

#### ★ Tips

Click  to add attachments such as photo, video and audio.



### 3.4 Email

You can send or receive emails.

#### ★ Note

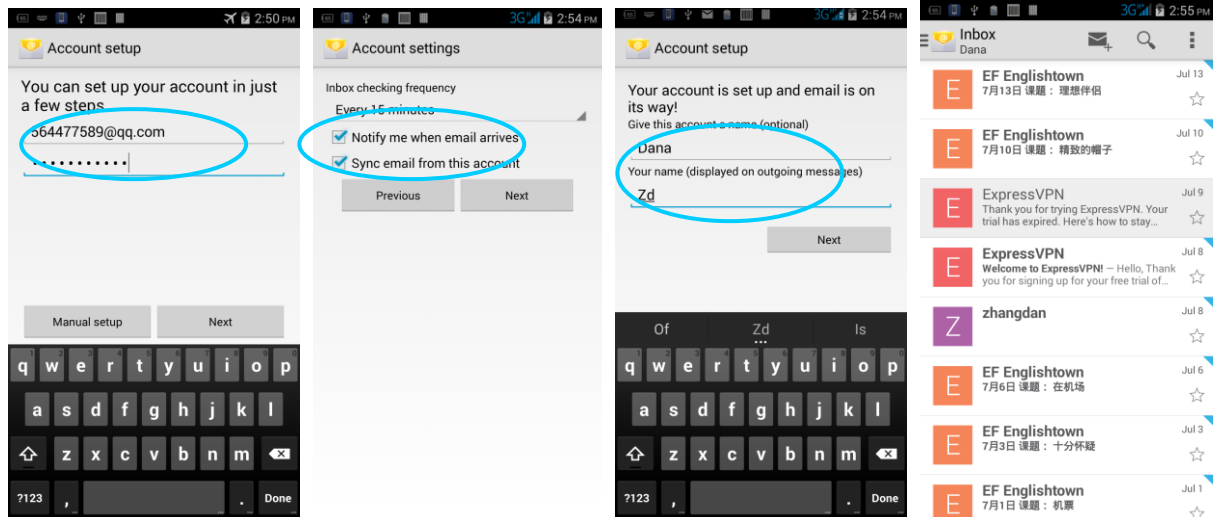
To create an email account on the iData 50, first set the account on a PC. Take a QQ email account as an example. Log in to the QQ email account, click **Settings** in the upper right corner of the email account page, find and select the server option and inbox option and then save. The email account is set.

To set an email account on the iData 50, do as follows:

1. Find the following icon.

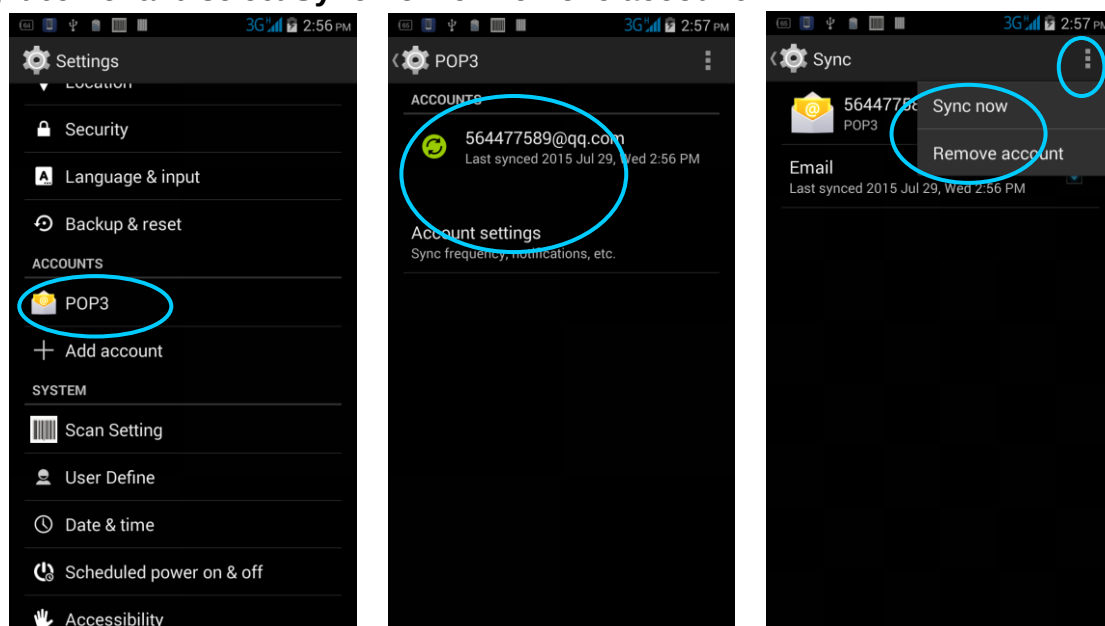


2. Enter an email address and password and click **Next**.
3. Set **Inbox checking frequency** and click **Next**.
4. Create a name for the account and click **Next**. The email receiving page is displayed.



To synchronize or delete an account, do as follows:

1. On the home screen, click **Settings**.
2. Under the **ACCOUNTS** option, click **POP3** to open added accounts and click the name of an account to be synchronized or deleted. On the **Sync** page, click  in the upper right corner and select **Sync now** or **Remove account**.



## 4 Network Connection and Connection Synchronization

### 4.1 GPRS Data Connection

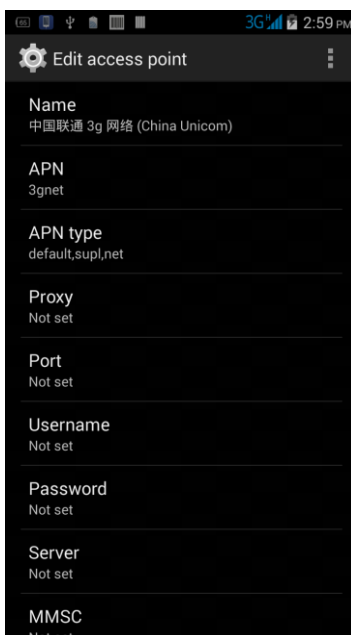
After a GPRS data connection is established, you can access the Internet. To establish a GPRS data connection, ensure that a SIM card is installed in the iData 50. In general, the Internet access configuration is set on the iData 50. If you delete the default configuration by accident, you can set the network by performing the following steps (take the network of China Unicom as the example):

1. Find the following icon.



2. Select **Settings > More > Mobile network > APN > China Unicom 3G Network**.

Then set the following items:



Name: China Unicom 3G network

APN: 3gnet

APN type: default, supl, net

Proxy: not set

Port: not set

Username: not set

Password: not set

Server: null

MMSC: not set

MMSC: not set

MMS port: not set

MCC: 460

MNC: 01

Authentication type: not set

APN protocol: IPv4

Enable/disable APN: APN enabled

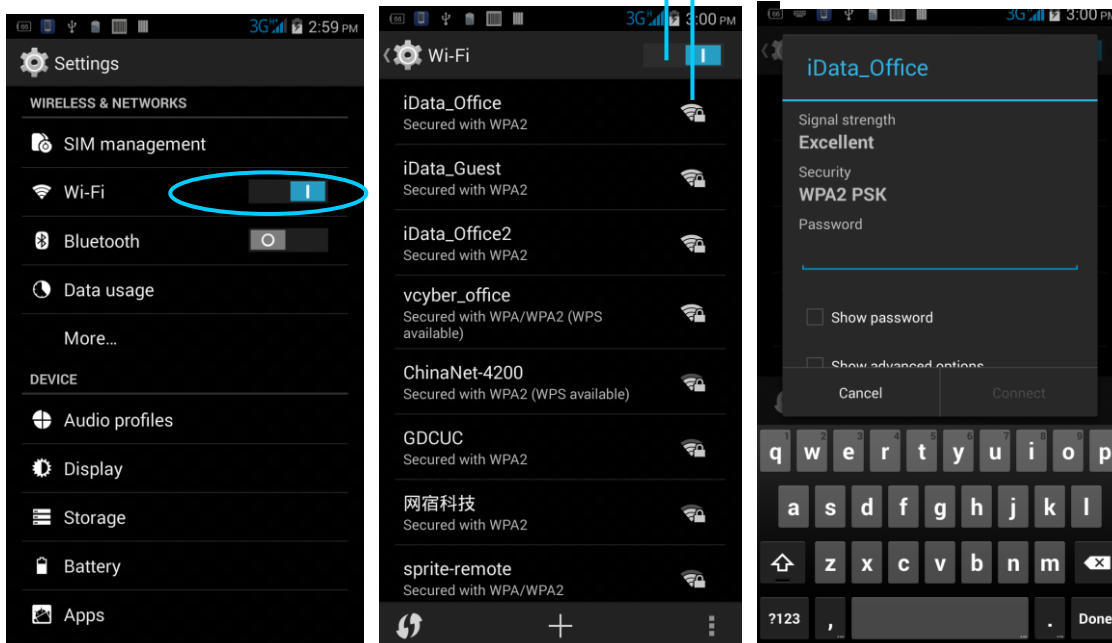
Bearer system: not set

## 4.2 Wi-Fi Network Connection

1. Find the following icon.



2. Select **Settings > WIRELESS & NETWORKS > WLAN**.
3. Click **Enable/disable WLAN**. The iData 50 starts to search for networks. If WLAN is enabled, click **Scan**. The iData 50 lists networks in the range of search.
4. Click a network and enter the password in the dialog box that is displayed.
5. Click **Connect**. The Wi-Fi connection is completed.



## 4.3 Bluetooth

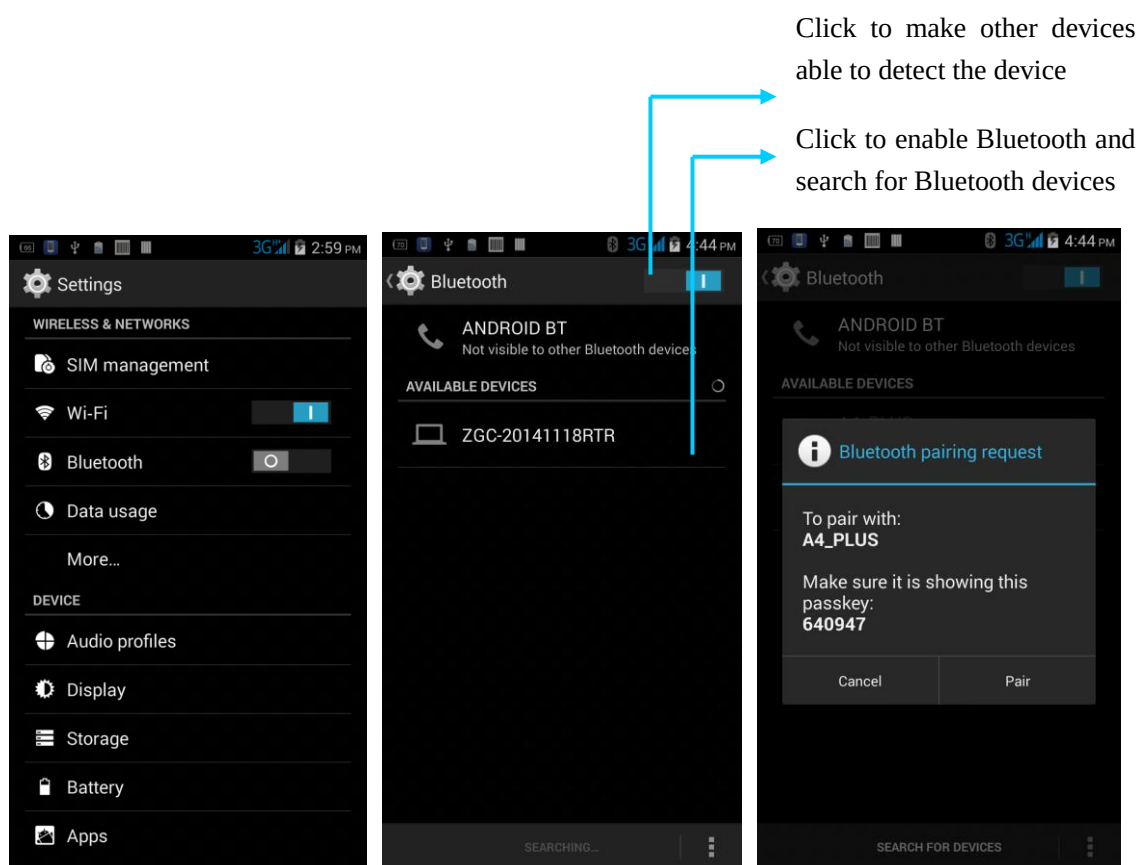
After you enable the Bluetooth function on the iData 50, you can establish wireless connections with other Bluetooth devices such as computers and mobile phones. In the scope without solid obstacles, the effect of Bluetooth connections is good.

1. Find the following icon.

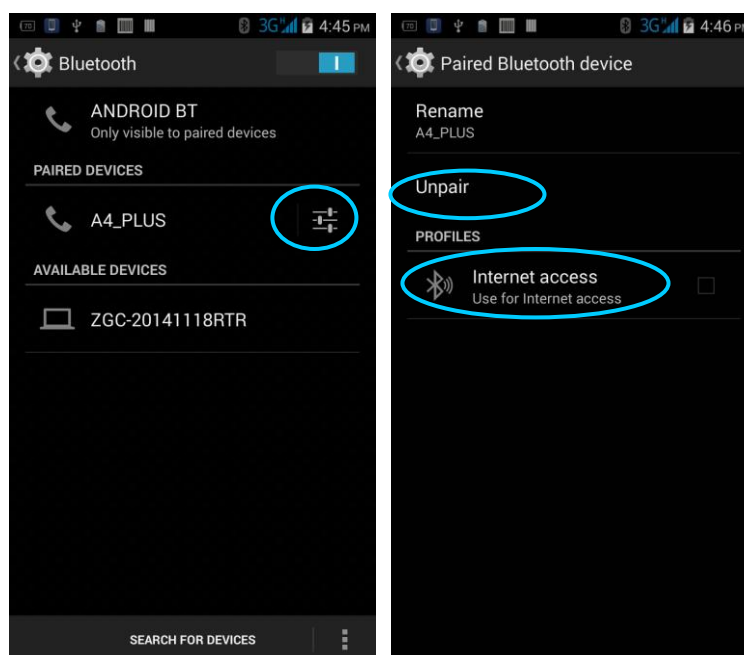


2. Select **Setting > WIRELESS & NETWORKS > Bluetooth**.
3. Click the icon for enabling/disabling Bluetooth to enable Bluetooth and search for other Bluetooth devices.
4. In the list of searched devices, click a device to pair the device.

5. In the dialog box that is displayed, confirm the PIN and click **Pair** to connect the device.



6. Click  on the right of a paired device. The **Rename**, **Unpair** and **Internet access** options are displayed. Perform operation as required.

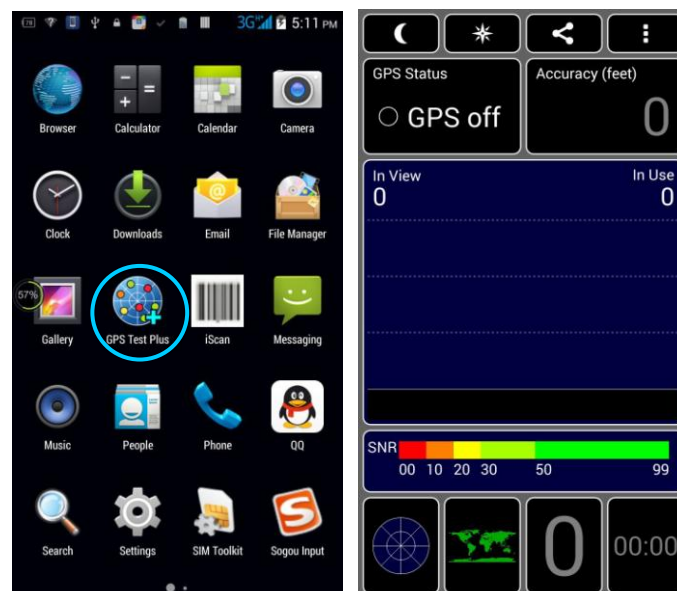


### ★ Caution

- ◆ Ensure that the device to be connected to the iData 50 has enabled the Bluetooth function and Bluetooth visibility.
- ◆ During the connection process, set and pair the PIN. The iData 50 does not support connection without a password.

## 4.4 GPS

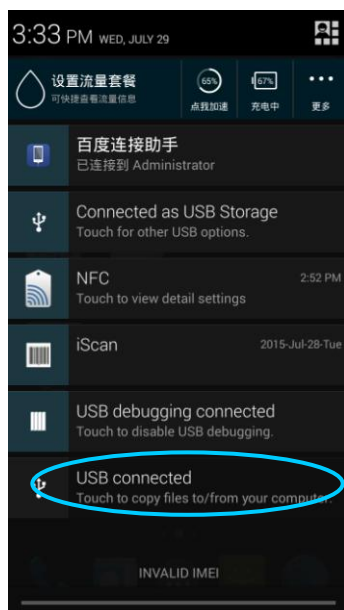
The iData 50 is equipped with a high-performance navigation chip and can quickly and accurately obtain position information. iData provides a GPS positioning demonstration program GPS Test. Before using GTS positioning, install the demonstration program. You can download navigation software in HiMarket (for details about how to install GPS navigation software and information about HiMarket, see 6.1 “Installing Programs”) and view position information.



## 4.5 Connecting the iData 50 to a PC

Connect the iData 50 to a PC by using a USB data cable so that you can transmit and process files such as photo, video and music files between the memory card of the iData 50 and the PC.

1. Connect the device to a USB port of the PC by using a USB data cable.
2. The status bar of the iData 50 displays the USB connection icon. Slide downwards the status bar. The USB connection status can be viewed and the USB connection mode can be selected.



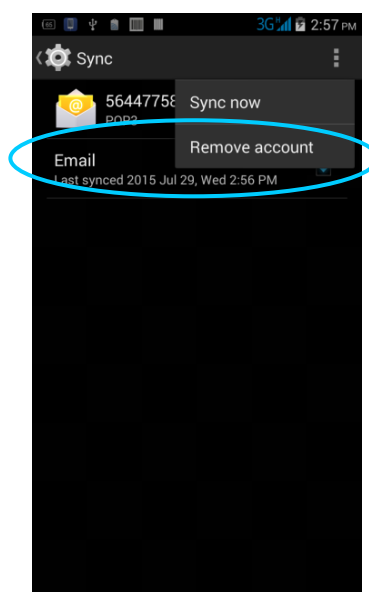
Click the option to open the USB storage device and copy files between the PC and the device

## 4.6 Synchronization

1. Find the following icon.



2. Select **Settings** > **Accounts & sync**.
3. Click **Add account** to set a new account.
4. Select **Company** or **Email**, enter the email address and password, click **Next** and wait until the connection is complete (for details about email setting, see 3.4 “Email”).
5. Click **Accounts**. On the synchronization setting page, perform setting as required.

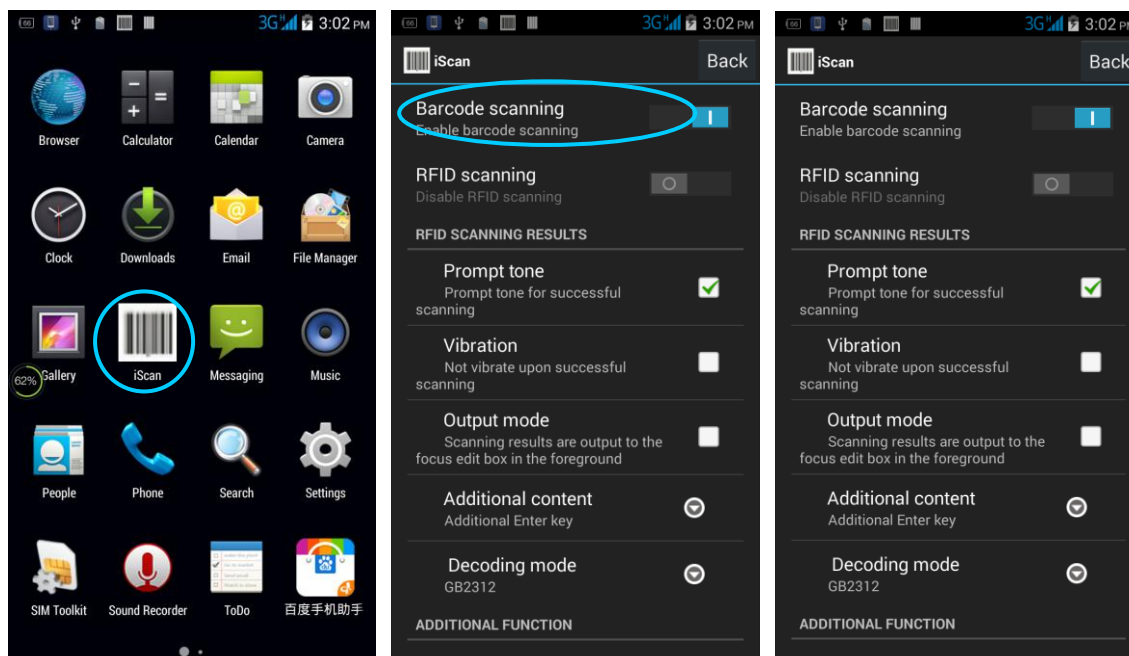


## 5 Introduction to iScan

### 5.1 Installing and Using iScan

To collect data, you must install and start the scanning application on the iData 50. At present, iData provides the demonstration scanning program iScan free of charge to obtain and decode barcode information.

First, install iScan on the iData 50 (for details about how to install iScan, see 6.1 “Installing Programs”). After iScan is installed, the iScan icon is displayed on the application screen. Click the icon to open the program (by default, barcode scanning is enabled) and press the scanning key to scan barcodes.



## 6 Managing the iData 50

### 6.1 Installing Applications

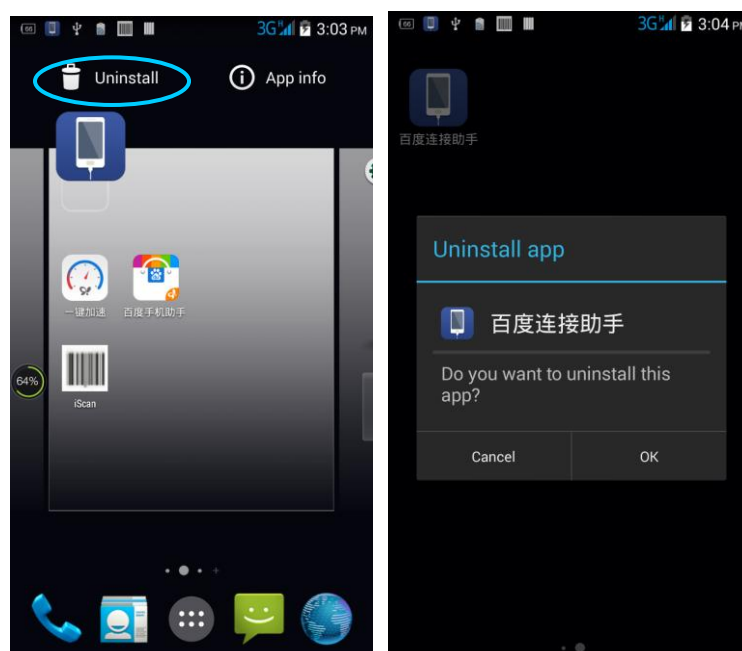
The iData 50 uses Google Android OS, where the suffix of Android software is apk. To install programs on the iData 50, use the following methods:

1. Download software at the online software store (Google Play) provided by Google or on the Android software download platform (HiMarket) available in China and install software. HiMarket is recommended.
2. Download software installation packages, store them on the SD card and install the software through file manager.
3. Connect the iData 50 to a PC by using a USB data cable and install software for the iData 50 on the PC. However, first of all, you need to install phone assistant software such as APK install, pea pod and phone assistant 91. In this way, programs can be installed in batches.

### 6.2 Uninstalling Applications

If too many programs are installed or some programs are unnecessary, uninstall programs to improve the running speed of the iData 50. To uninstall a program, do as follows:

1. Select **Settings** > **App**. In the application list that is displayed, select an application and click it. On the page for uninstalling the application, click **Uninstall** and then click **OK**. Wait several seconds until the application is uninstalled.
2. Click the application tray. On the application screen, find the icon of an application, press and drag the icon to the dustbin to uninstall the application.



## 6.3 Managing Applications

Select **Settings** > **App**. On the application management screen, you can view application status in the options such as Downloaded, SD Card and Running, click an application, access the application information screen, and perform operations such as forcibly stopping, uninstalling and stopping an application.



## 7 Precautions and Troubleshooting

### 7.1 Precautions

---

**To ensure that the iData 50 does not fail, follow the following precautions during use of the iData 50:**

- ♦ Put the iData 50 and its components and accessories in the places where children cannot reach.
- ♦ Keep the iData 50 dry. Rain, moisture and liquid contain acidic materials and will corrode the circuit board.
- ♦ Do not store or use the iData 50 in dusty or dirty places.
- ♦ Do not store the iData 50 in a place that is too hot. High temperature will shorten the service life of electronic components.
- ♦ Do not store the iData 50 in a place that is too cold. When the temperature inside the iData 50 rises, moisture is generated inside the iData 50, which may damage the circuit board.
- ♦ Do not try to disassemble the iData 50. Otherwise, the iData 50 may be damaged.
- ♦ Do not touch the screen surface of the iData 50 by using a pen, a pencil or other sharp articles in case the screen may be scratched.
- ♦ Do not throw, beat or violently collide the iData 50. Otherwise, the components of the iData 50 may be damaged and the iData 50 may be faulty.
- ♦ Do not use strong chemical products or strong detergent to clean the iData 50. If the iData 50 become dirty, clean the surface of the iData 50 by using a soft cloth soaked with dilute glass detergent.
- ♦ Please use the protective film to reduce wear as much as possible. The screen protective film can improve the availability and durability of the screen.

**Pay attention to the following during use of the battery.**

- ♦ The area where the iData 50 is charged must keep away from scraps, inflammables or chemical substances.
- ♦ When you charge the battery of a mobile device, the temperature on the battery and charger must be in the range 0°C to 40°C.
- ♦ Do not use incompatible batteries or chargers, which may cause fire, explosion, leakage or other hazards.
- ♦ Do not disassemble, press, twist, pierce or cut the battery.
- ♦ Do not make the battery short-circuited or contact the connecting terminal of the battery by using metal or other conductive objects.
- ♦ Do not insert other materials into the battery, contact the battery with water or other liquid, or expose the battery in an open fire, explosive source or other sources of danger.
- ♦ Do not put or store the battery in the environment where the temperature is too high.
- ♦ Do not put the battery in a microwave oven or a drying machine.

- ♦ Do not put the battery into a fire.
- ♦ If the battery leaks, do not let the liquid stain your skin or eyes. Otherwise, wash your skin or eyes with lots of water and go to see the doctor immediately.

### Cleaning iData 50

- ♦ Shell  
Clean the shell by using a cloth soaked with alcohol, including keys and space between keys.
- ♦ Display screen  
You can clean the display screen by using a cloth soaked with alcohol. Do not let the liquid gather around the screen. Otherwise, dry the screen by using a soft non-woven cloth in case strip marks are left on the screen.
- ♦ Scan lens  
Clean the scan lens regularly by using lens paper or other articles suitable for cleaning optical materials.

## 7.2 Troubleshooting

Table 7-1 iData 50 troubleshooting

| Fault                                                                                 | Cause                                                              | Solution                                                                |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|
| After the power key is pressed, the iData 50 is not powered on.                       | The battery volume is too low or the battery is not charged.       | Charge the battery or replace the battery.                              |
|                                                                                       | The battery is incorrectly installed.                              | Correctly install the battery.                                          |
|                                                                                       | The system breaks down.                                            | Restore factory settings.                                               |
| The rechargeable battery can no longer be charged.                                    | The battery fails.                                                 | Replace the battery.                                                    |
|                                                                                       | The temperature of the battery is too high or low.                 | Put the battery in normal temperature.                                  |
| During data communication, data is not transmitted or transmitted data is incomplete. | The cable configuration is incorrect.                              | Consult the system administrator.                                       |
|                                                                                       | The communication software is incorrectly installed or configured. | Install or reinstall the synchronization software to update the driver. |
| The relevant function is not activated after a user clicks a button or icon.          | The system does not respond.                                       | Restart the system.                                                     |
| No sound can be heard.                                                                | The volume is too low or is disabled.                              | Adjust the volume.                                                      |
| The iData 50 is closed.                                                               | The iData 50 is in the inactive state.                             | After being inactive for a period of time, the iData 50 is locked.      |
|                                                                                       | The battery is used up.                                            | Replace the battery.                                                    |
| The iData responds at a                                                               | Too many files are stored in                                       | Remove unused memos and records. If                                     |

| Fault                                                  | Cause                                                | Solution                                                                                                    |
|--------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| low speed.                                             | the iData 50.                                        | necessary, save the records on the host or increase the storage capacity by using an SD card.               |
|                                                        | Too many applications are installed on the iData 50. | Remove applications installed on the iData 50.                                                              |
| The iData 50 cannot decode a barcode while reading it. | The scan application is not loaded.                  | Load the scan application in the iData 50.                                                                  |
|                                                        | Reading a barcode fails.                             | Check that the barcode is ineffective.                                                                      |
|                                                        | The battery volume is low.                           | If the scanner stops sending out a light beam after you press the trigger switch, check the battery volume. |

Table 7-2 Bluetooth troubleshooting

| Fault                                                                                                                                             | Cause                                                                                                | Solution                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| The iData 50 cannot detect any Bluetooth device nearby.                                                                                           | The iData 50 system is too far away from other Bluetooth devices.                                    | Move the iData 50 close to other Bluetooth devices, making the distance between them within 10 meters. |
|                                                                                                                                                   | The Bluetooth devices nearby are not enabled.                                                        | Enable the Bluetooth devices you are searching for.                                                    |
|                                                                                                                                                   | Bluetooth devices are in a mode that cannot be detected.                                             | Set Bluetooth devices in a mode that can be detected.                                                  |
| When a user attempts to connect a Bluetooth phone to the iData 50, the Bluetooth phone identifies the iData 50 as the previously paired iData 50. | The Bluetooth phone memorizes the name and address of the iData 50 paired previously over Bluetooth. | Remove the paired device and the name from the Bluetooth phone.                                        |
| A Bluetooth device can be detected but cannot be connected.                                                                                       | The iData 50 does not support connecting a Bluetooth device without a password.                      | Set a password for the Bluetooth device.                                                               |

Table 7-3 Cable troubleshooting

| Fault                             | Cause                         | Solution           |
|-----------------------------------|-------------------------------|--------------------|
| Charging fails.                   | The cable is in poor contact. | Replace the cable. |
| Connecting to the iData 50 fails. | The cable is in poor contact. | Replace the cable. |

Table 7-4 Wi-Fi troubleshooting

| Fault                      | Cause                                             | Solution                                       |
|----------------------------|---------------------------------------------------|------------------------------------------------|
| Connecting to an AP fails. | The message "Authentication failed" is displayed. | The password for the WLAN device is incorrect. |

# Appendix

Table 1 Accessories of the iData 50

| Component                  | Description                                                   |
|----------------------------|---------------------------------------------------------------|
| iData 50                   |                                                               |
| Standard battery           |                                                               |
| Power adapter              | Used to charge the battery.                                   |
| Hand strap                 |                                                               |
| Package                    |                                                               |
| USB data cable             | Used to communicate with the iData 50 or charge the iData 50. |
| Instructions               |                                                               |
| Warranty card              |                                                               |
| Data cable at the bottom   | Optional                                                      |
| One-slot USB charging base | Optional                                                      |
| Silicon protective sleeve  | Optional                                                      |

Table 2 Technical specifications of the iData 50

| Item                        | iData 50                                                                 |
|-----------------------------|--------------------------------------------------------------------------|
| <b>System configuration</b> |                                                                          |
| Processor                   | Quad-core 1.3 GHz high-performance processor                             |
| OS                          | (Optional) 3G: Android 4.4<br>(Optional) 4G: Android 5.0                 |
| Memory                      | 8GB ROM + 1GB RAM                                                        |
| Extended slot               | Mini SD card (up to 32 GB is supported)                                  |
| Display screen              | 4.7-inch Retina screen, ultra-high resolution (1280x720)                 |
| Touch panel                 | Industrial grade capacitive screen (supporting touch wearing gloves)     |
| Camera (optional)           | Rear 8M auto-focus camera, with LED fill-in light, 5M front fixed camera |
| Scan lens glass             | Corning Gorilla glass                                                    |
| Keypad                      | 4 keys in front, 4 keys on both sides, power key                         |
| Battery                     | 3.7V 3600 mAh lithium polymer battery                                    |
| Audio                       | Built-in microphone/mini USB/earphone jack                               |
| Prompt                      | Vibration prompt/LED prompt/audio prompt                                 |
| Vibration motor             | Built-in program controlled vibration motor                              |
| Sensor                      | G-Sensor                                                                 |
| <b>Structure parameters</b> |                                                                          |
| Dimensions (L x W x D)      | 150 mm x 73.5 mm x 16 mm (24 mm thick at the head)                       |

|                                       |                                                                                                             |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Item                                  | iData 50                                                                                                    |
| Weight                                | 230g (including battery)                                                                                    |
| <b>Communication and transmission</b> |                                                                                                             |
| Wireless voice communication          | 850/900/1800/1900 MHz GSM                                                                                   |
| WWAN                                  | (Optional) 3G: GPRS/WCDMA 2100 MHz<br>(Optional) 4G: TD-LTE, FDD-LTE, WCDMA 2100/1900/850 MHz, EVDO 800 MHz |
| WLAN                                  | (Optional) 3G: Wi-Fi 802.11b/g/n<br>(Optional): 4G: Wi-Fi 802.11b/g/n/ac (dual bands: 2.4G+5G)              |
| Bluetooth                             | Bluetooth 4.0                                                                                               |
| GPS                                   | High-performance GPS                                                                                        |
| <b>Operating environment</b>          |                                                                                                             |
| Development tool                      | Android SDK+JDK+Eclipse                                                                                     |
| Supported language                    | Java                                                                                                        |
| Operating temperature                 | -10°C to 50°C                                                                                               |
| Storage temperature                   | -20°C to 60°C                                                                                               |
| Humidity                              | 0 to 95% (non-condensing)                                                                                   |
| Drop specification                    | Multiple drops to cement ground from a distance of 1.2m                                                     |
| Sealing standard                      | IP65                                                                                                        |
| ESD                                   | ± 15 kV air discharge, ±8 kV direct discharge                                                               |
| <b>1D laser scanning engine</b>       |                                                                                                             |
| Optical resolution                    | ≥ 4 mil                                                                                                     |
| Scan depth of field                   | 3.81 cm to 60.98 cm                                                                                         |
| Scanning angle                        | 47±3° (standard)                                                                                            |
| Scanning speed                        | 102±12 times per second (two-way)                                                                           |
| <b>1D/2D image scanning engine</b>    |                                                                                                             |
| Optical resolution                    | ≥ 3 mil                                                                                                     |
| Scanning angle                        | Omni-directional                                                                                            |
| Scanning speed                        | 300 times per second                                                                                        |
| <b>NFC</b>                            |                                                                                                             |
| Frequency                             | 13.56 MHz                                                                                                   |
| Reading                               | Within 10 mm                                                                                                |

|                          |                   |
|--------------------------|-------------------|
| Item                     | iData 50          |
| distance                 |                   |
| Communication protocol   | ISO14443A         |
| <b>Input/output port</b> |                   |
| USB port                 | 1 (Mini USB port) |
| Serial port              | 1                 |
| Earphone jack            | 1                 |

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